TELEFUNKEN SERVICE

FERNSEHEN
TELEVISION
TÉLÉVISION

Chassis 418 A

Bestell-Nr. 319 134 825

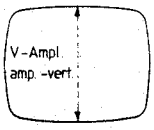
Service-Einstellungen · Regolazioni di servizio · Service adjustments · Réglages de service

❶ Chassis · Telaio · Chassis

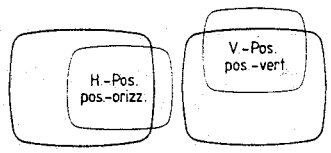
Hauptspannung, Tensione principale, Principal voltage, Tension principale } Usyst. 110 V

1. ◑ ☼ min.
2. PP 52 → 110 V ± 1 V
   105 V ± 1 V – 14"
   107 V ± 1 V – 16" NN
   120 V ± 1 V – 21"

PF 11



PL 39 PF 04



LV 63; 5,5 MHz
Tonfalle · trapola tono · sound trap
1. Oscilloscop. → BE 01/pin 10
2. Schwarz-Weiß-Testbild (ohne Burst) · segnale bianco-nero (senza burst) · black + white signal (without burst)
3. LV 63 → 5,5 MHz min.

PV 79 Spitzenweiß · bianco punte · peak white
1. Gittertestbild · segnale grata · grating testpattern
2. Oscilloscop. Pin 3 (11) Bildröhre · pin 3 (11) cinescopio · pin 3 (11) CRT

❶ Chassis · Telaio · Chassis

3. ☼ + 111 → standard, ◑ → max.
4. PV 79 → 65 Vpp (ohne Austastimpulse · senza impulso · without blanking pulses)

U_{G2} Schirmgitterspannung · tensione griglia schermo · screen grid voltage
1. Grautreppe · scala grigio · grey scale
2. ◑ + ☼ → standard, 111 → min.
3. U_{G2} → alle Grauwerte sichtbar · visione tutti toni grigi · all grey scale values visible

PAL

PC 44, PAL-Amplitude · Amplitude PAL · LC 43 PAL-Phase · Fase PAL
1. Oscilloscop. → F1 R-Y
2. Oscilloscop.: 2 Zeilen triggern · trig. 2 linea · trigger to 2 lines
3. PC 44/LC 43 wechselweise · alternativo · alternating → min. jitter

NTSC

LV 28 NTSC (3,58 MHz) Farbträger-Falle · trapola colore (3,58 MHz) · color carrier trap (3.58 MHz)
1. NTSC Farbbalken Testbild · segnale barre colore NTSC · NTSC color bare signal
2. Osci. → RV 28/LV 28
3. LV 28 → min.

Secam

LV 29 Secam Farbträger-Falle (4,25 MHz) · trapola colore secam (4,25 MHz) · Secam color carrier trap (4.25 MHz)
1. Secam Testbild Weiß · segnale bianco · test picture white
2. Osci. → RV 28/LV 28
3. LV 29 → min.

LC 54 ident. Secam
1. Secam Farbtestbild · segnale colore · color bare signal
2. Osci. → IV 01 Pin 23
3. LC 54 → max.

Secam

LC 13 B-Y/LC 17 R-Y Demodulator
1. Secam Farbtestbild · segnale colore · color bare signal
2. Osci. → IV 01 Pin 2
3. LC 17 → farbl. Balken auf Niveau von Austastlücke · barre senza colore sul livello del synchronisme · colorless bare to level of blanking interval
4. Osci. → IV 01/Pin 64
5. LC 13 → wie 3. · preciso 3. · like 3.

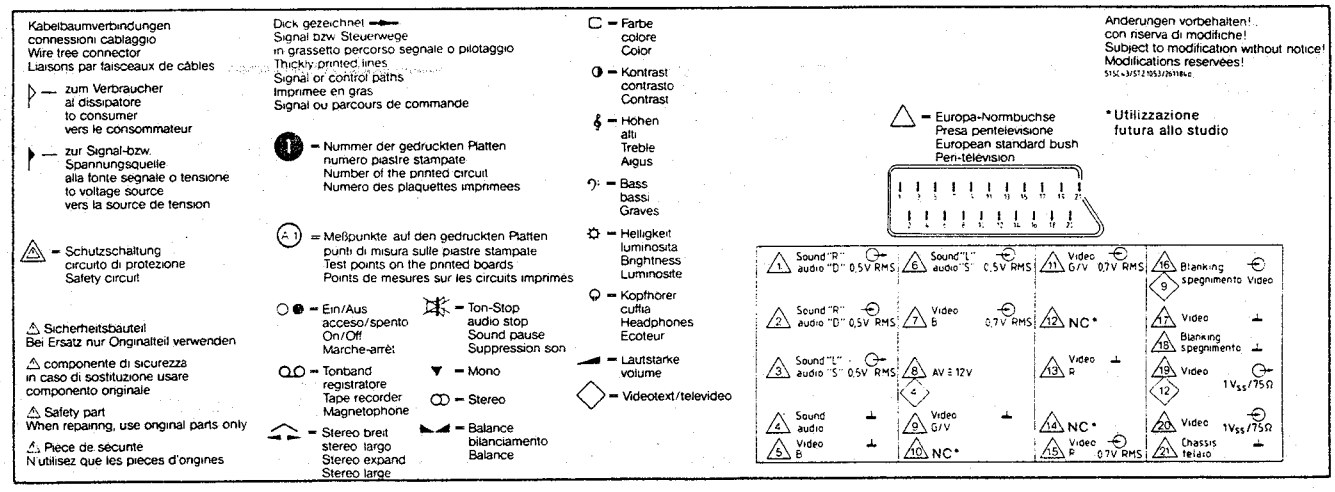
LC 23 Glockenfilter · filtro del campana · bell-filter
1. Secam Farbtestbild · segnale colore · color bare signal
2. Osci. → IV 01 Pin 18
3. LC 23 → Farbamplitude auf gleiches Niveau · ampl. colore livello uguale · color amplitudes to the same level

❺ Bildröhrenplatte · piastra cinescopio · CRT-board

I. **Weißabgleich · aggustiamento bianco · white adjustment**
1. ◑ + ☼ → max.
2. Schwarz-Weiß-Testbild · segnale bianco-nero · black + white test pattern
3. PT 11, PT 21 wechselweise · alternativo · alternating → Bild auf min. Farbstich · colore a livello minimo · to min. color shade

II. **Grauabgleich · aggustiamento grigio · grey adjustment**
1. Schwarz-Weiß-Testbild · segnale bianco-nero · black + white test pattern
2. ◑ + ☼ → Bild gerade noch sichtbar · quadro apena visibile · picture just visible
3. PT 12/PT 22 wechselweise · alternativo · alternating → Bild auf min. Farbstich · colore a livello minimo · to min. color shade
4. Einstellung I bei Bedarf wiederholen · aggustiamento I se necessario ripertere · repeat adjustment I if necessary

Erklärung der im Schaltbild verwendeten Symbole · Explanation of the symbols used in the circuit diagram
Spiegazioni dei simboli usati in questo schema · Légende des symboles utilisés dans le schéma de montage

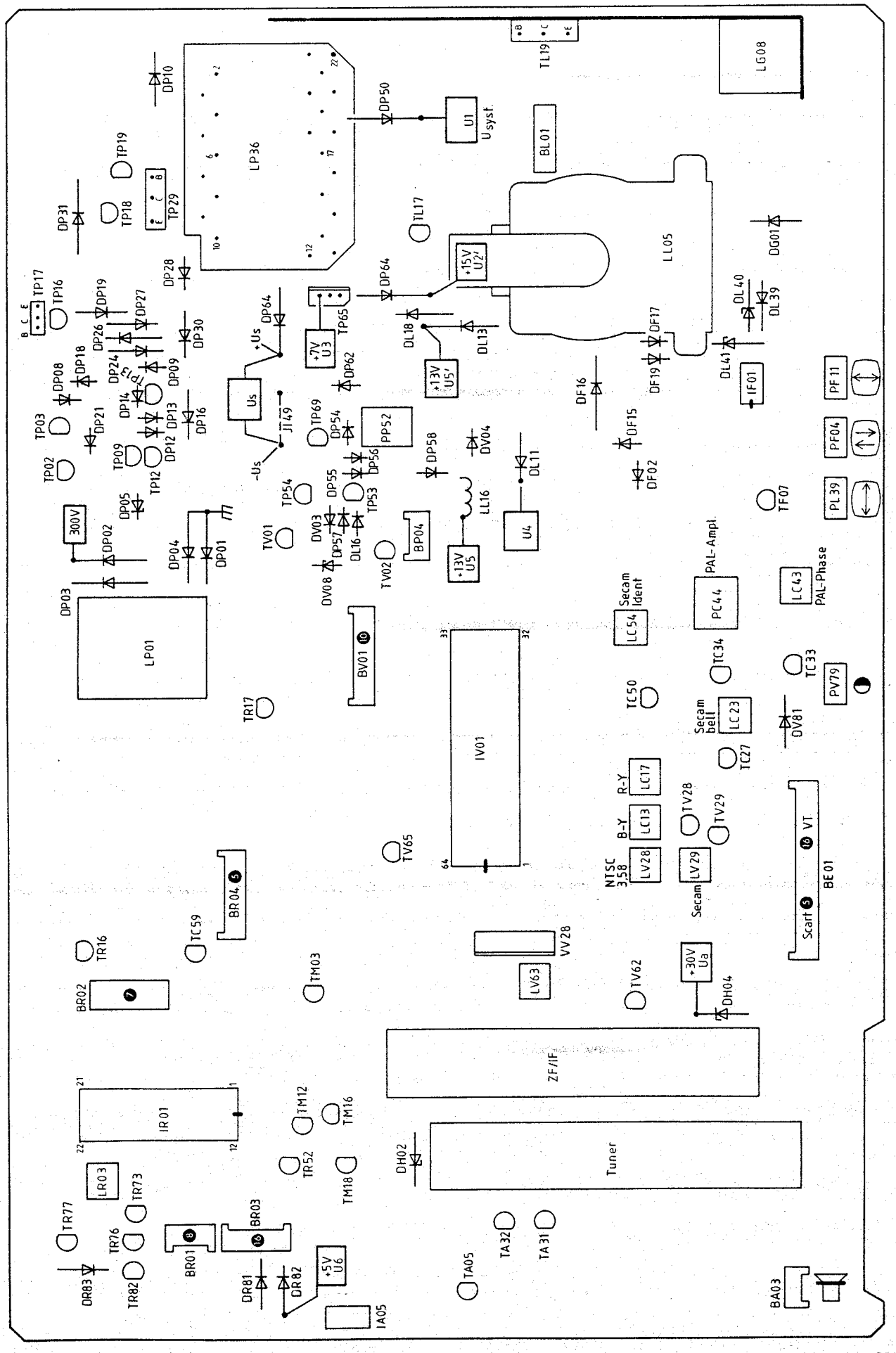


Bauteilekennzeichnung der Funktionsstufen
Codice componenti con sigla dello stadio
Signification of components of the stages
Désignation des composants et des circuits

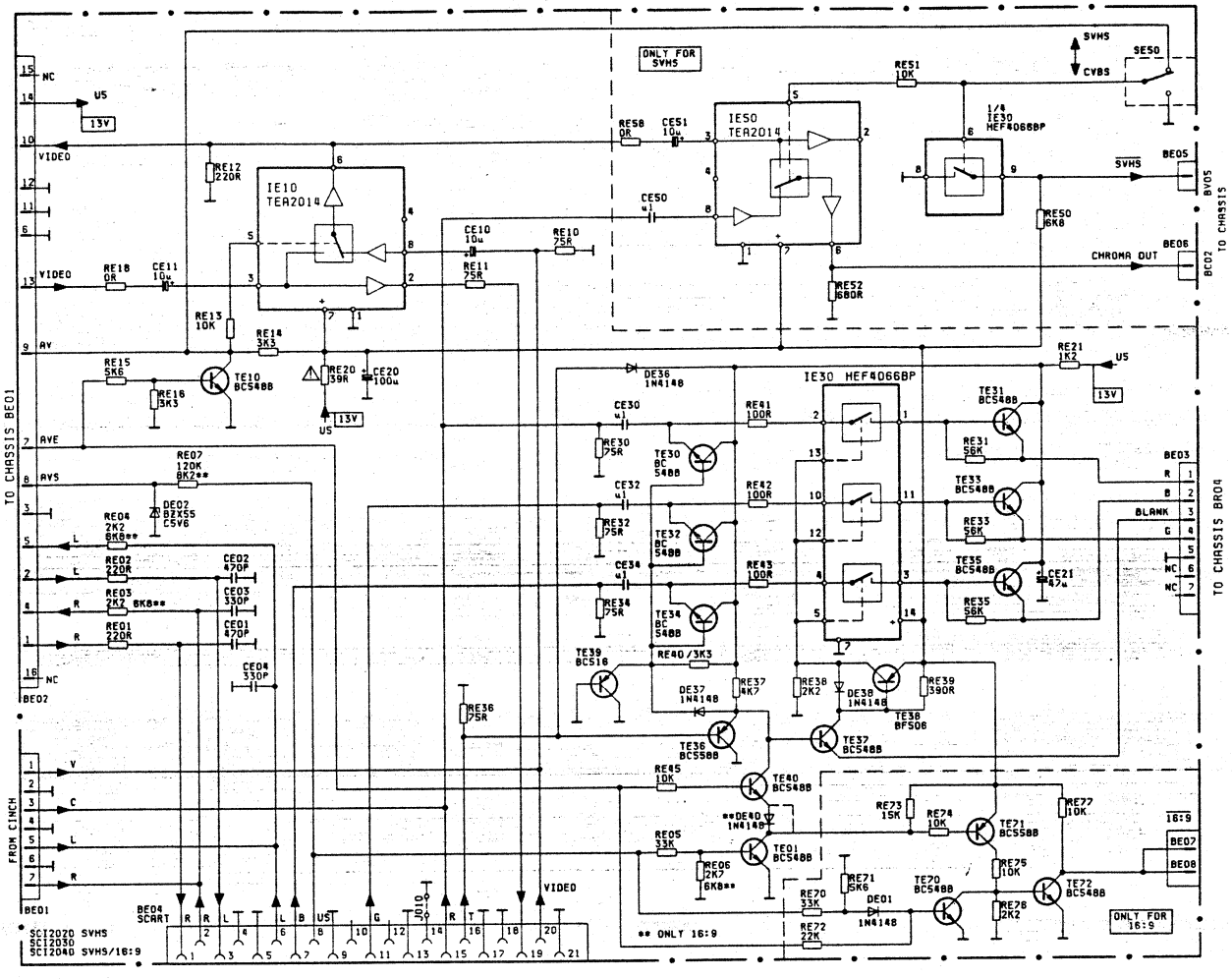
RC, CC, DC, TC, LC	etc.	→	Chroma	(PAL-Decoder, Decoder PAL)
RF, CF, DF, TF, LF	etc.	→	Field	(Vertikal, Verticale)
RL, CL, DL, TL, LL	etc.	→	Line	(Horizontal, orizzontale)
RP, CP, DP, TP, LP	etc.	→	Power	(Netzteil, Alim. rete)
RS, CS, DS, TS, LS	etc.	→	Sound	(Audio)
RV, CV, DV, TV, LV	etc.	→	Video	(Video)

Änderungen vorbehalten!
Con riserva di modifiche!

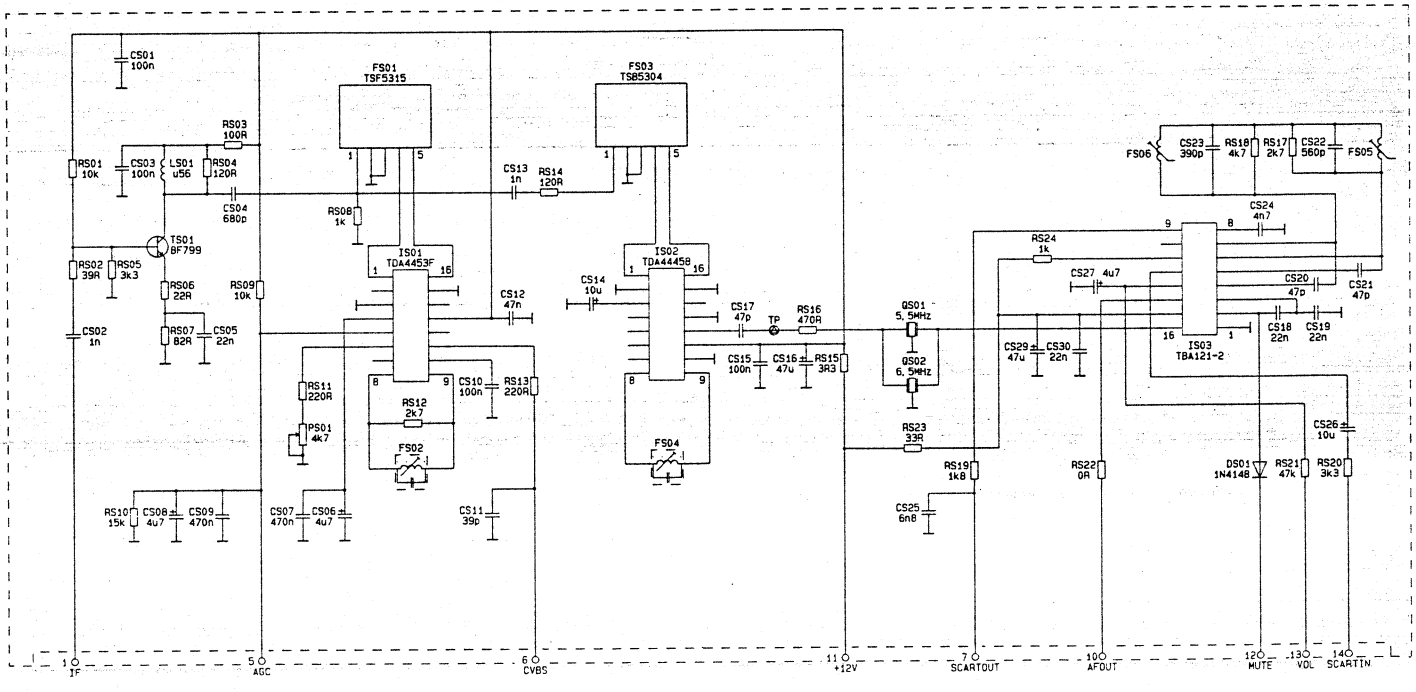
30945930-A – IMP S.E.T.I.G. PALUISEENE ANGERS
02 92


LP36
LG08
TL19
U1
Usyst
BL01
LL05
TL17
+15V U2'
DP50
DP64
DP10
TP19
TP18
TP29
DP31
DP28
DP30
DP26
DP19
DP27
TP17
TP16
DP08
DP18
DP24
DP14
DP09
DP13
DP16
TP03
DP21
TP02
TP09
TP12
DP05
300V
DP02
DP03
LP01
DP04
DP01
TV01
TP54
DV03
DP57
DV08
DL16
TP53
DP55
DP56
TV02
BP04
DP58
LL16
+13V U5
DV04
DL11
U4
PP52
TP69
DP54
Us
-Us
JI49
+7V U3
TP65
DP62
+13V U5'
DL18
DL13
DF16
DF15
DF02
DF17
DF19
DL41
DL40
DL39
DG01
IF01
PF11
PF04
PL39
TF07
PAL-Ampl.
PC44
LC43
PAL-Phase
Secam Ident
LC54
TC34
TC33
PV79
DV81
TC50
Secam bell
LC23
TC27
R-Y
LC17
B-Y
LC13
TV28
TV29
NTSC 3.58
LV28
LV29
Secam
IV01
TV65
TR17
BV01
BR04
TC59
TR16
BR02
TM03
LV63
VV28
TV62
+30V Ua
DH04
Scart
VT
BE01
ZF/IF
Tuner
DH02
IR01
TM12
TM16
TR52
TM18
LR03
TR73
TR77
TR76
TR82
BR01
BR03
DR81
DR82
+5V U6
IA05
TA05
TA32
TA31
BA03

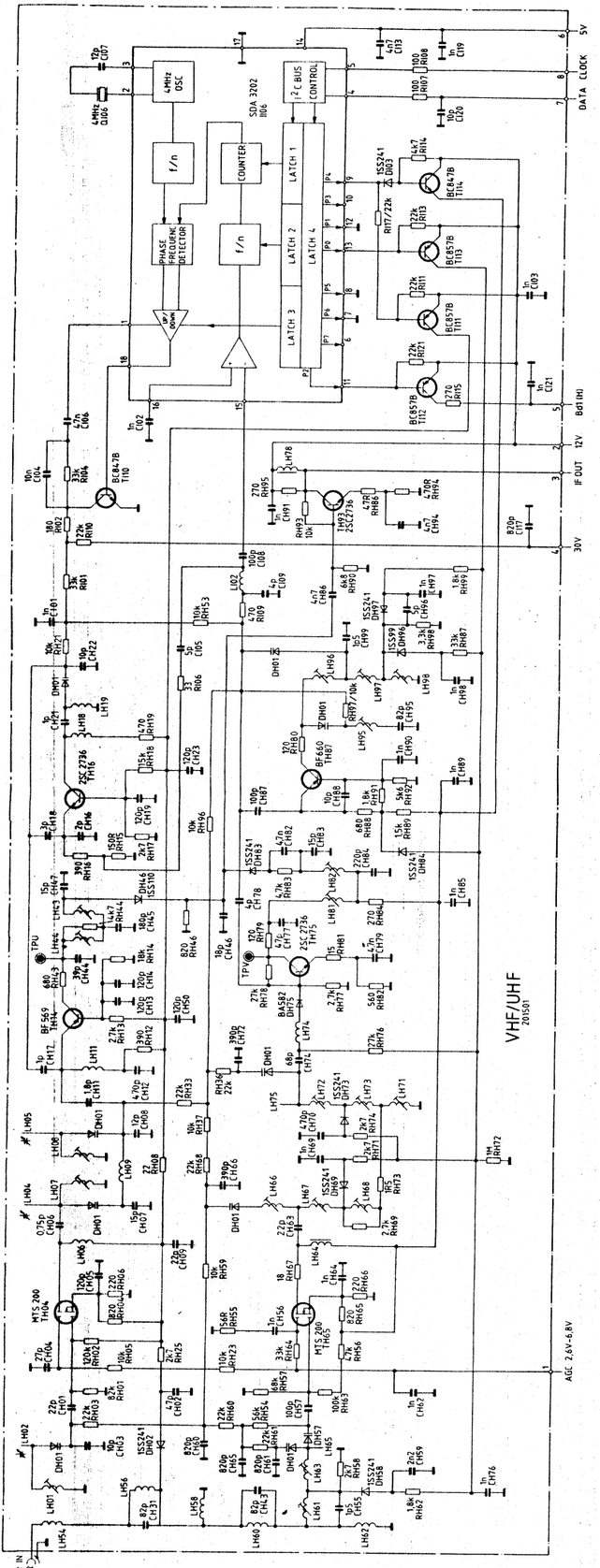
Scart Anschluß SCI 2020
Scart Interface SCI 2030
SCI 2040

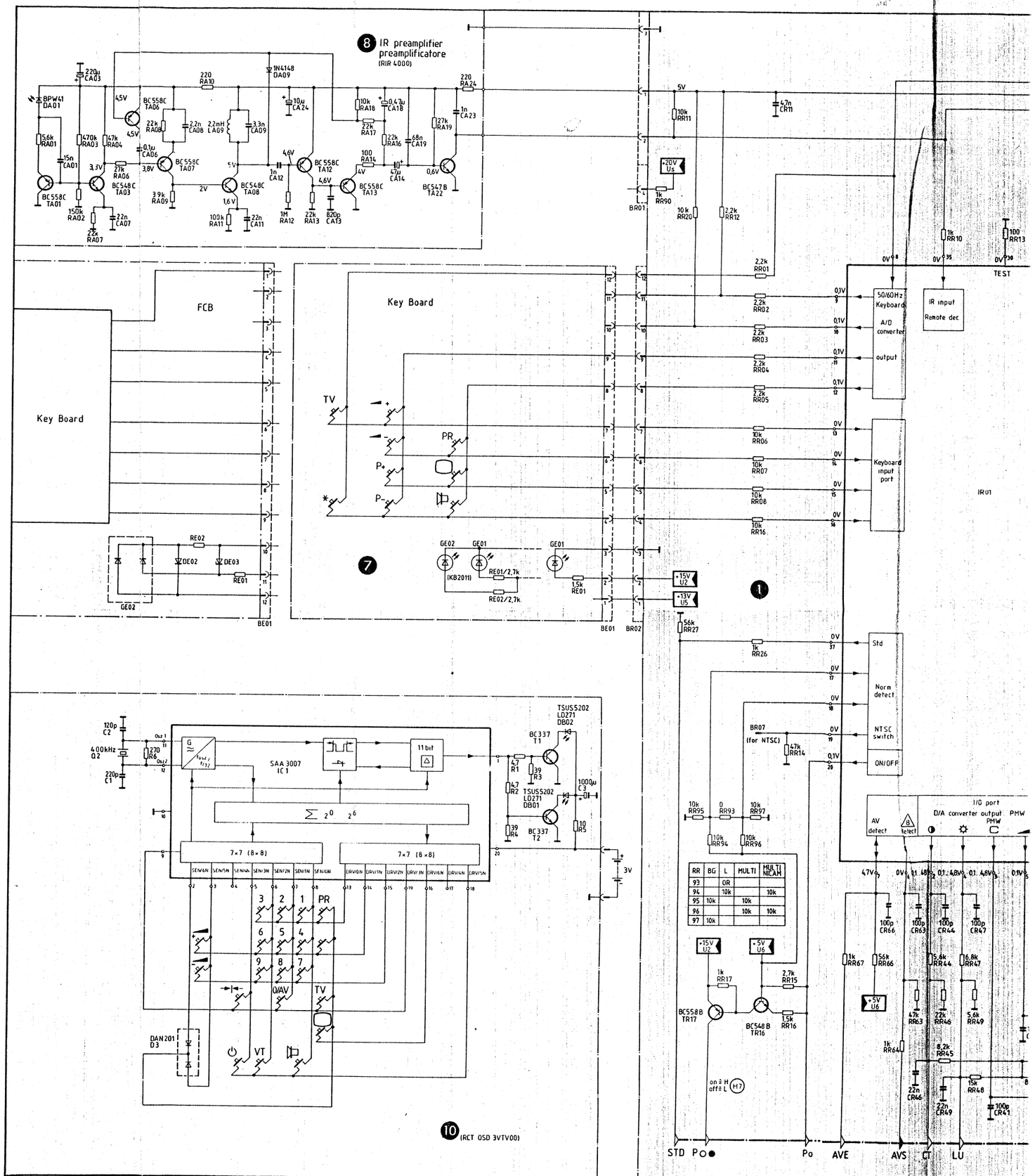


ZF-Verstärker IF 2148
IF Amplifier
Amplificateur FI
Amplificatore FI



TUNER MM-2015 (Hyperband)





RR	BG	L	MULTI	MULTI NICAM
93		OR		
94		10k		10k
95	10k		10k	
96			10k	10k
97	10k			

yperband)

Änderungen vorbehalten!
Con riserva di modifiche!
Subject to modification without notice!
Modifications réservées!

8 IR preamplifier
preamplificatore
(RIR 4000)

FCB

Key Board

Key Board

7

10 (RCT OSD 3VTV00)

1

IR01

TEST

HOLD

RESET

Mute
Stop

OSD-Osz
15625Hz

Display on Screen

V-Sync

V-Sync

H-Sync

Y (BL)

B

G

R

RGB output

50/60Hz Keyboard A/D converter output

Keyboard input port

Std

Norm detect

NTSC switch

ON/OFF

IR input
Remote dec

CPG
Osz 4MHz

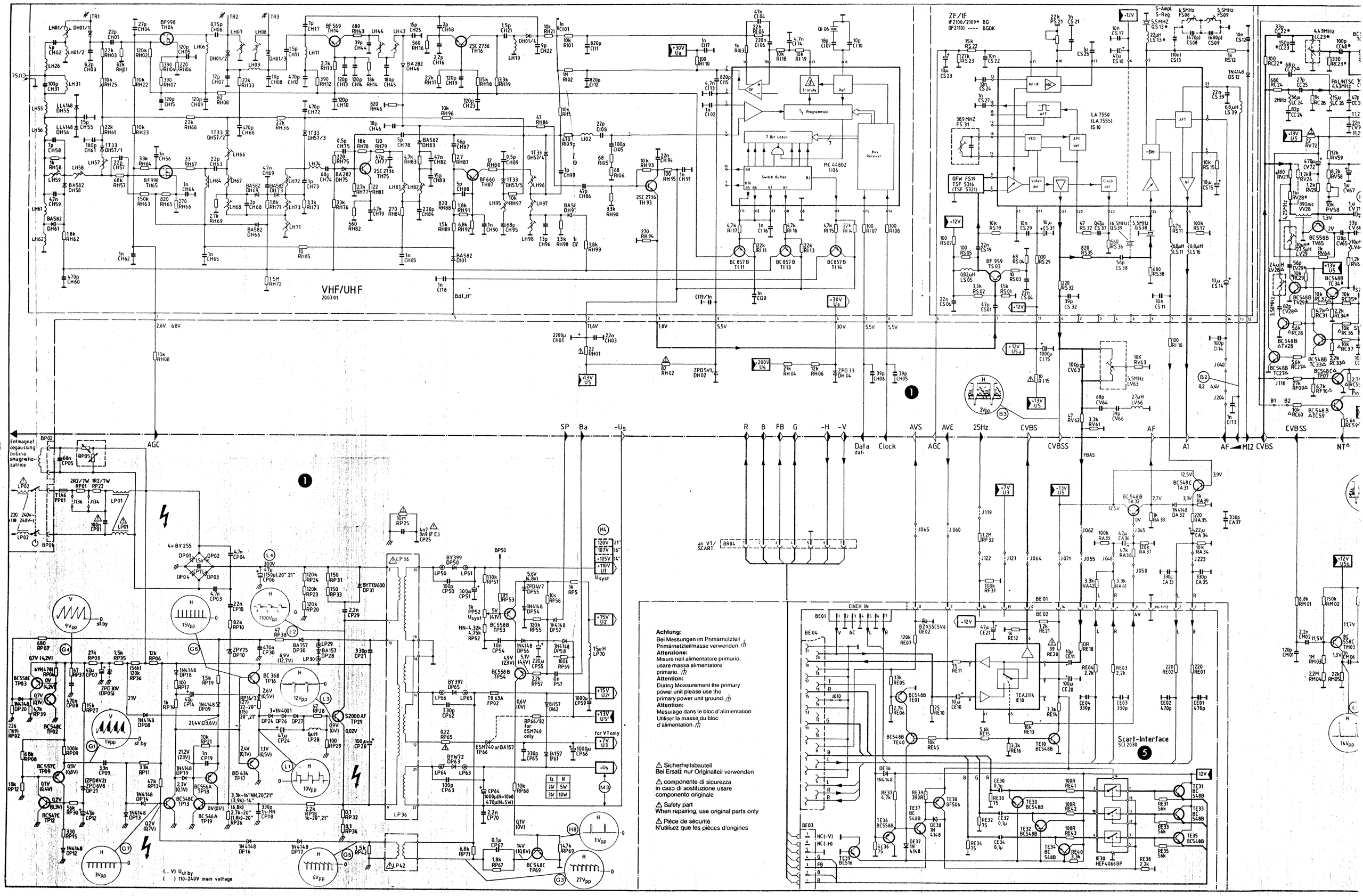
I/O port
D/A converter output PMW
AV detect
detect
PMW
Tint

I/O
Serial port
25Hz Data Clock

not for stereo

MS
-V
NT
-H
FB
B
G
R
Clock
Data
Tint
CO

STD Po● Po AVE AVS CT LU


VHF/UHF
ZF/IF
IF2100/2109* BG
(IF2110) ---- BGDK
LA 7550
(LA 7555)
IS 10
MC 44802
IIC06
Switch Buffer
7 Bit Latch
Bus Receiver
1/2 Programmabl
3-state
Ref
OP
AFT
VCO
APC det
Video det
Clock det
AGC
AV
Scart-Interface
SCI 2030
5
Achtung:
Bei Messungen im Primärnetzteil Primärnetzteilmasse verwenden.
Attenzione:
Misure nell alimentatore primario, usare massa alimentatore primario.
Attention:
During Measurement the primary power unit please use the primary power unit ground.
Attention:
Mesurage dans le bloc d'alimentation: Utiliser la masse du bloc d'alimentation.
Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden
componente di sicurezza
in caso di sostituzione usare componento originale
Safety part
When repairing, use original parts only
Pièce de sécurité
N'utilisez que les pièces d'origines
(... V) Ust by
( ) 110-240V main voltage
SP
Ba
-Us
R
B
FB
G
-H
-V
Data
Clock
AVS
AVE
25Hz
CVBS
CVBSS
AF
A1
AF
MI2 CVBS
NT
AGC
FBAS
an VT/ SCART
Entmagnet
degaussing
bobina
smagnetiz-
zatrice

Änderungen vorbehalten!
Con riserva di modifiche!
Subject to modification without notice!
Modifications réservées!

10 Video-Amplifier

amplificatore video
CRT 20005
(CRT 20015)

*14" not inserted

Mute circuit
audio stop

Audio

IA05	US	N	Inserted	RA06
TDA2006	20V	5W	CA01/RA03	39k
TDA2030	30V	10W	CA14/RA14	—

** only for IF2136

( ) MN Picture tube